



Natural Resources Database Software Version Description

June 13, 2005
Version: 2.0

Final

Prepared by

Kenneth J. Klapatch
Data Manager
Long Term Limnological Monitoring Program
Crater Lake National Park

And

Robert E. Truitt
Data Manager
Klamath Network Inventory & Monitoring Program
1250 Siskiyou Blvd
Ashland, OR. 97520-5011

[illegible]

Table of Contents

Natural Resources Database Software Version Description.....	i
Document Changes and Revisions.....	ii
Table of Contents.....	iii
Table of Figures	iii
Table of Tables	iii
1 Scope.....	1
1.1 Identification	1
1.2 System overview	1
1.3 Document overview	2
1.4 Version control.....	2
2 Version Description	2
2.1 Inventory of materials released.....	2
2.1.1 Initial release.....	2
2.1.2 Current release	3
2.1.3 Previous releases.....	3
2.2 Changes installed	4
2.2.1 Current release changes	4
2.2.2 Previous release changes.....	4
3 Notes	4
4 References.....	4

Table of Figures

Figure 1 System overview.	Error! Bookmark not defined.
--------------------------------	-------------------------------------

Table of Tables

Table 1 Inventory of materials.....	2
Table 2 Initial computer software configuration items.....	3
Table 3 Current computer software configuration items.	3
Table 4 Previous computer software configuration items.	4

1 Scope

1.1 Identification

This Software Version Description applies to the software product identified as the Klamath Inventory and Monitoring Network Natural Resources Database.

1.2 System overview

The Klamath Inventory and Monitoring Natural Resources Database represents a standardized set of database tables, structures, field definitions and associated user interface consisting of user displays/forms, reports and queries, which may be used with a wide range of natural resource field data.

The software and data structures comprising this Natural Resources Database (NRD) are contained within two separate but tightly coupled MS Access database files utilizing the JET database manager. This design is a modification of the classic two tier design and is commonly referred to as a "back-end" and "front-end". The classic two-tier design identifies separate database and user interface layers whereas this design consists of a separate database layer and mixed database/user interface layer thru the use of linked database tables within the user interface layer. Figure 1 System overview depicts this relationship. This figure illustrates three connected back-end databases; however the front end can accommodate hundreds of compatible "back-end" databases.

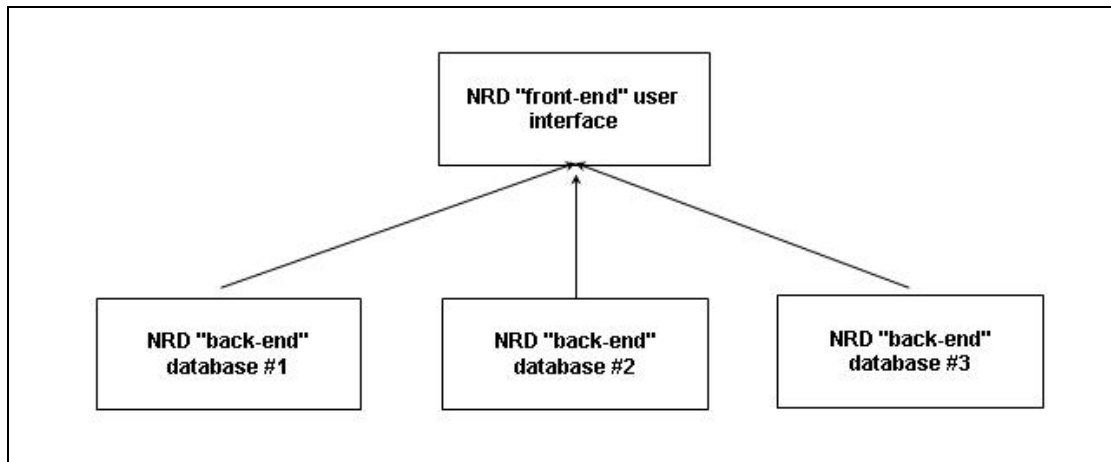


Figure 1 System overview 1

The NRD "front-end" user interface accesses the contents of the "back-end" database primarily thru the linking of "back-end" tables into the "front-end". This process is moderated by software in the "front-end" which performs the linking of "back-end" objects into the "front-end" by accessing a list of objects identified in the "back-end" "tbl_Database_Link_Items" table. This occurs when the user selects and links to a "back-end" database.

1.3 Document overview

The purpose of this document is to identify all released software and document versions. Identification of changes and their extent shall also be described. Included sections will identify the initial release, the current release and a historical track of all other releases.

1.4 Version control

Version releases will be determined by the extent of modifications: small or incidental changes to the software which do not affect compatibility with the currently released version will not require a new version release, however, version identification shall be incremented to the next minor release level.. Changes which result in incompatibility with the currently released version or consist of major changes, enhancements, bug fixes, etc. shall result in a new version release with a new version identification number set to the next higher major version release level. Numerous minor changes may be aggregated into a single, minor version release.

2 Version Description

2.1 Inventory of materials released

The Natural Resources Database and supporting documentation will initially be released from the developer on compact disk (CD). Included documentation will be in PDF format. Secondary releases from the Klamath Network Data Manager may be available from a variety of media ranging from compact disk (CD), web site download or direct computer to computer copy. In any case, a complete inventory of software and documents are as follows:

Table 1 Inventory of materials.

KLMN_NRD_FE_Vers_x_x.mdb	Software Front End
KLMN_NRD_BE_Vers_x_x_blank.mdb	Software Back End
KLMN_Natural_Resources_Database_DBDD_Vxx.pdf	Database Design Description Document
KLMN_Natural_Resources_Database_SUM_Vxx.pdf	Software User Manual Document
KLMN_Natural_Resources_Database_SVD_Vxx.pdf	Software Version Description Document

The small "x"s in the file names in the above table refer to the current release version number.

2.1.1 Initial release

This Natural Resource Database consists of five (5) configuration items as identified in Table 1 Initial computer software configuration items.

Table 2 Initial computer software configuration items.

Configuration Type	Configuration Item Name	Version
Software Front End	KLMN_NRD_FE_Vers_1_0.mdb	1.0
Software Back End	KLMN_NRD_BE_Vers_1_0_blank.mdb	1.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Software Version Description	1.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Software User Manual.	1.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Database Design Description.	1.0

2.1.2 Current release

The current release is the initial release; please refer to the section describing the initial release.

Table 3 Current computer software configuration items.

Configuration Type	Configuration Item Name	Version
Software Front End	KLMN_NRD_FE_Vers_1_5.mdb	1.5
Software Back End	KLMN_NRD_BE_Vers_1_0_blank.mdb	1.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Software Version Description	2.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Software User Manual.	2.0
Documentation	Klamath Network Inventory and Monitoring Natural Resources Database - Database Design Description,	2.0

2.1.3 Previous releases

The current release is the initial release; please refer to the section describing the initial release.

Table 4 Previous computer software configuration items.

Date of Release	Version
June 13, 2005	2.0
April 25, 2005	1.0

2.2 Changes installed

This section shall provide a concise description of changes made to the Natural Resources Database for each release.

On the form for site topography (frm_site_data_topography), the percent of surface water had been left out of the previous version. The text object was added to the form and is now available for data entry.

2.2.1 Current release changes

The current release is the initial release; please refer to the section describing the initial release.

2.2.2 Previous release changes

The current release is the initial release; please refer to the section describing the initial release.

3 Notes

4 References

Klamath Network Inventory and Monitoring Natural Resources Database - Database Design Description, National Park Service, Klamath Inventory and Monitoring Office, Ashland OR.

Klamath Network Natural Resource Database - Software Version Description

Klamath Network Inventory and Monitoring Natural Resources Database - Software User Manual, National Park Service, Klamath Inventory and Monitoring Office, Ashland OR.